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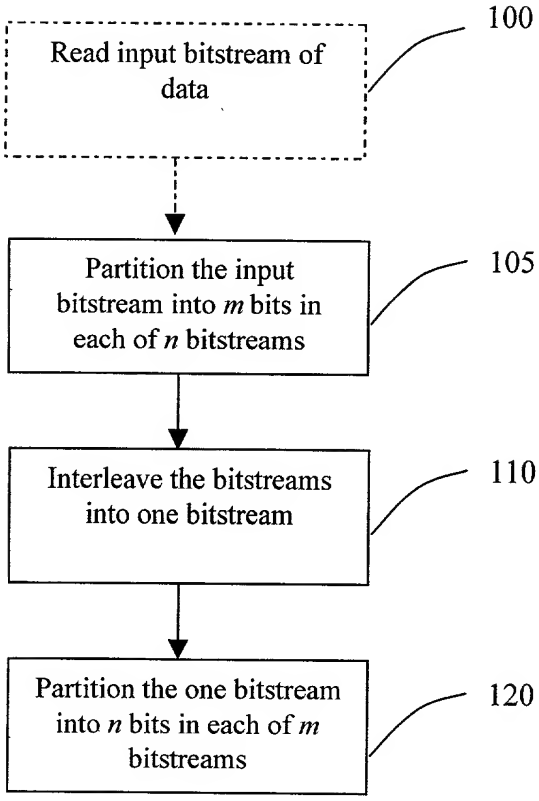

FIG. 1

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Portal - The Document

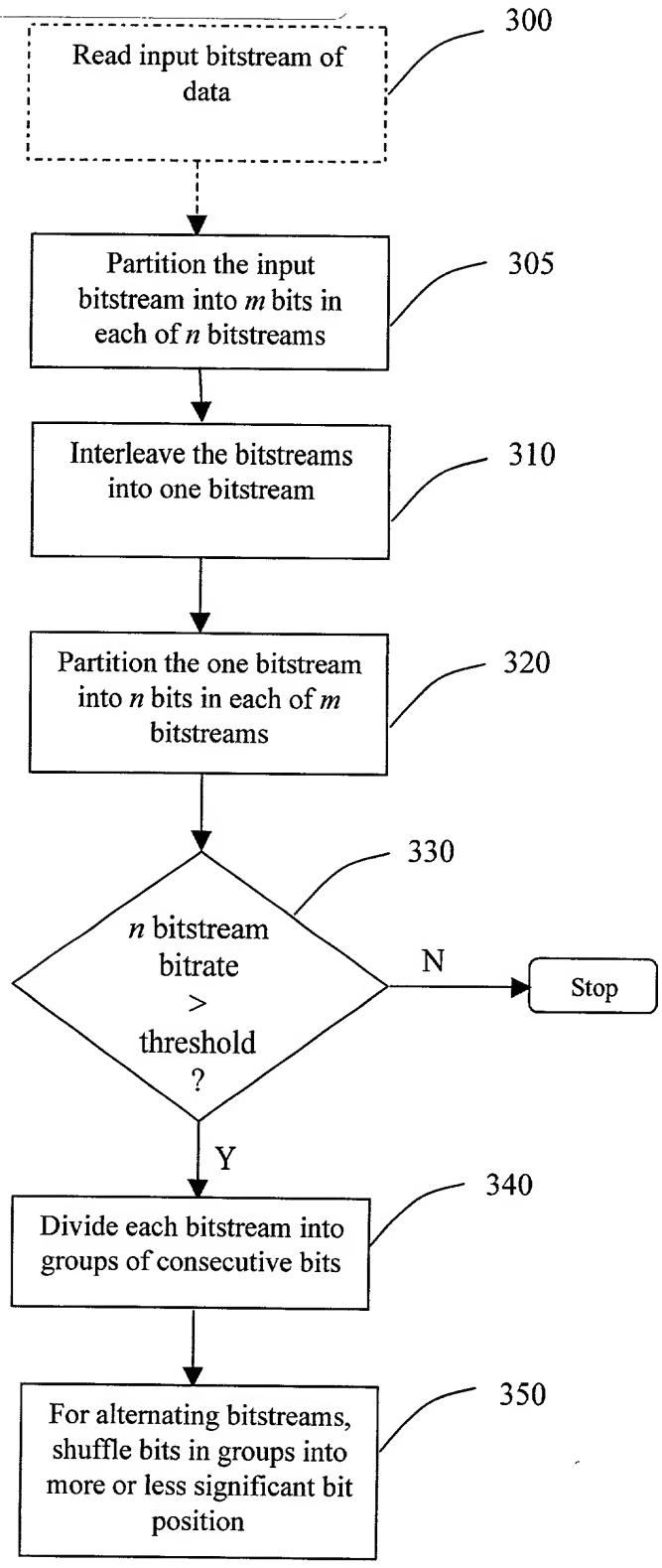

FIG. 2

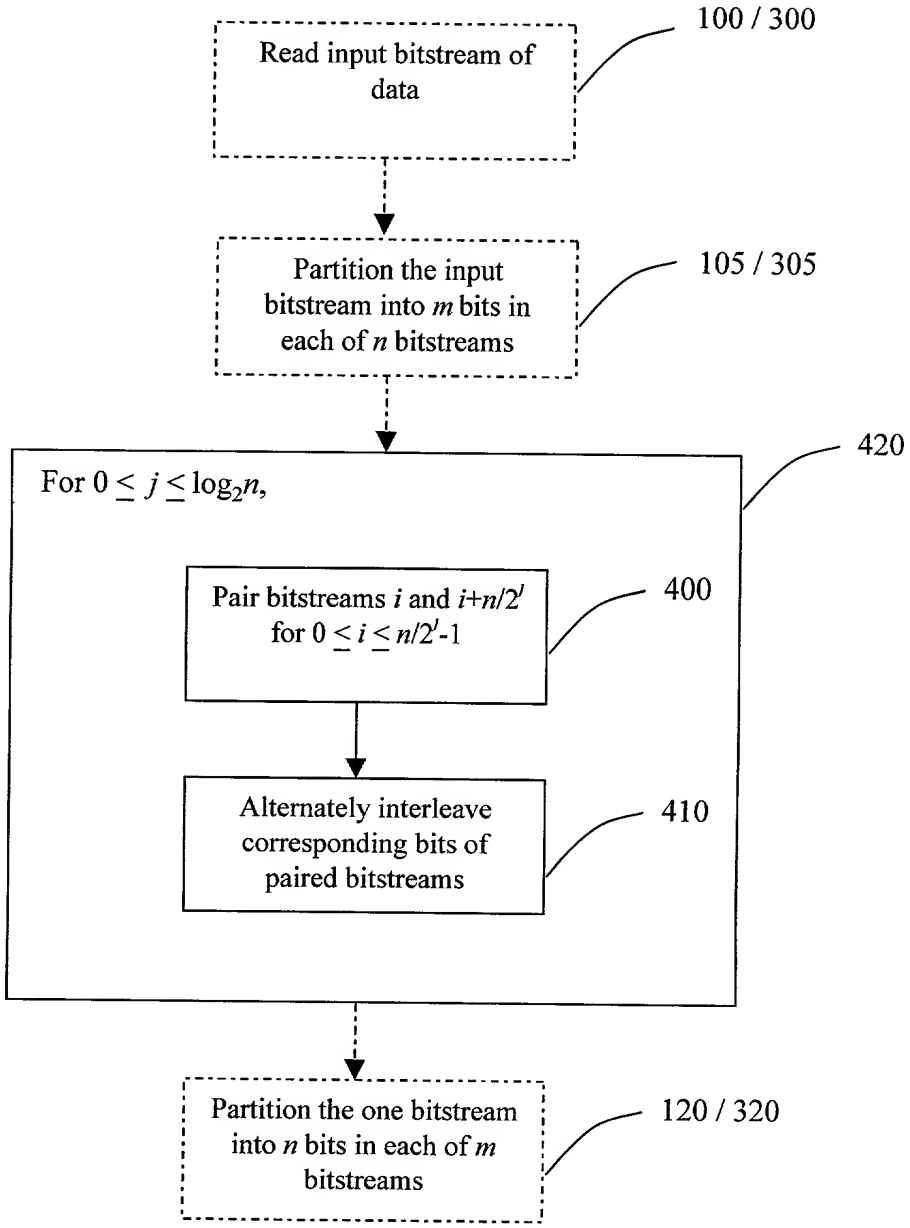
Read input bitstream of data
100 / 300
Partition the input bitstream into m bits in each of n bitstreams
105 / 305
For $0 \leq j \leq \log_2 n$,
420
Pair bitstreams i and $i+n/2^j$ for $0 \leq i \leq n/2^j-1$
400
Alternately interleave corresponding bits of paired bitstreams
410
Partition the one bitstream into n bits in each of m bitstreams
120 / 320

FIG. 3

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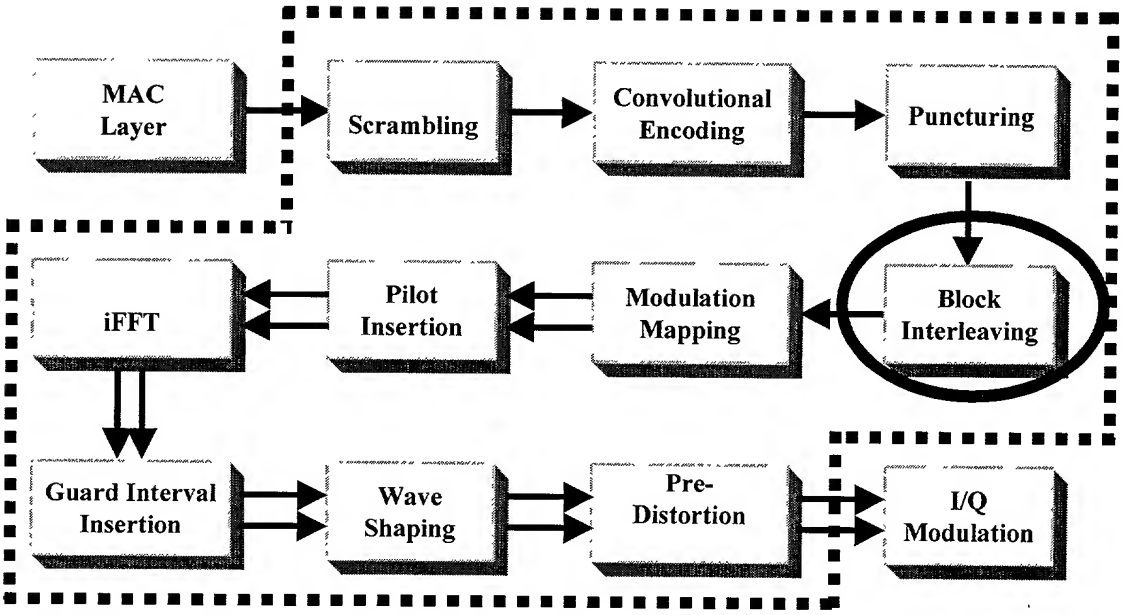


FIG. 4

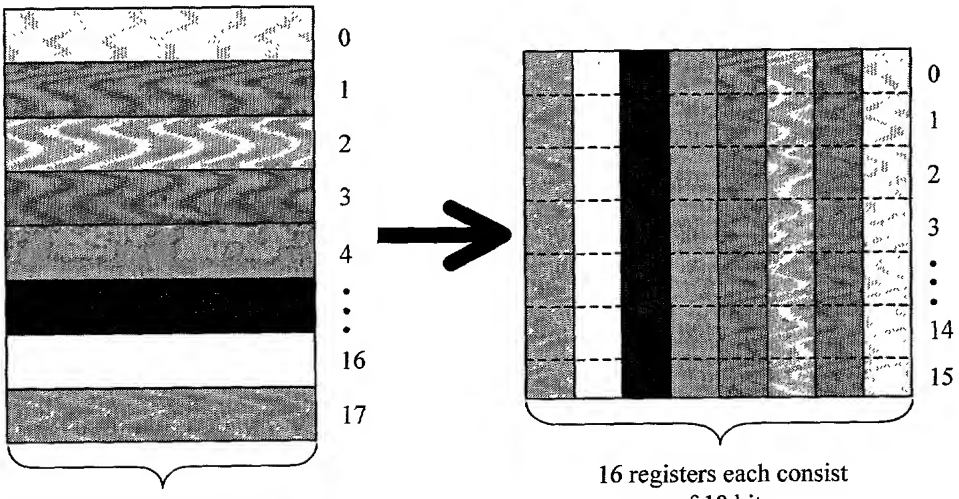
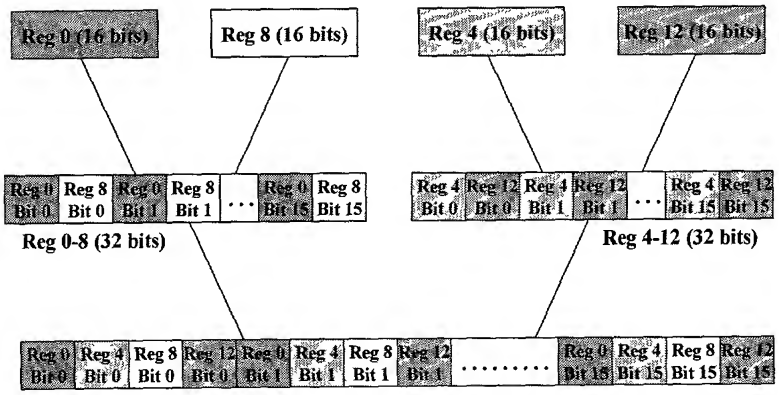


FIG. 5



Starting from Reg 0-8 then bit-interleaving with Reg 4-12 inserts bit 0 of Reg 4 between those of Reg 0 and 8, pushing bit 0 of Reg 8 to the right, and so on .... until the bits are ordered consecutively, from 0 to 15

FIG. 7

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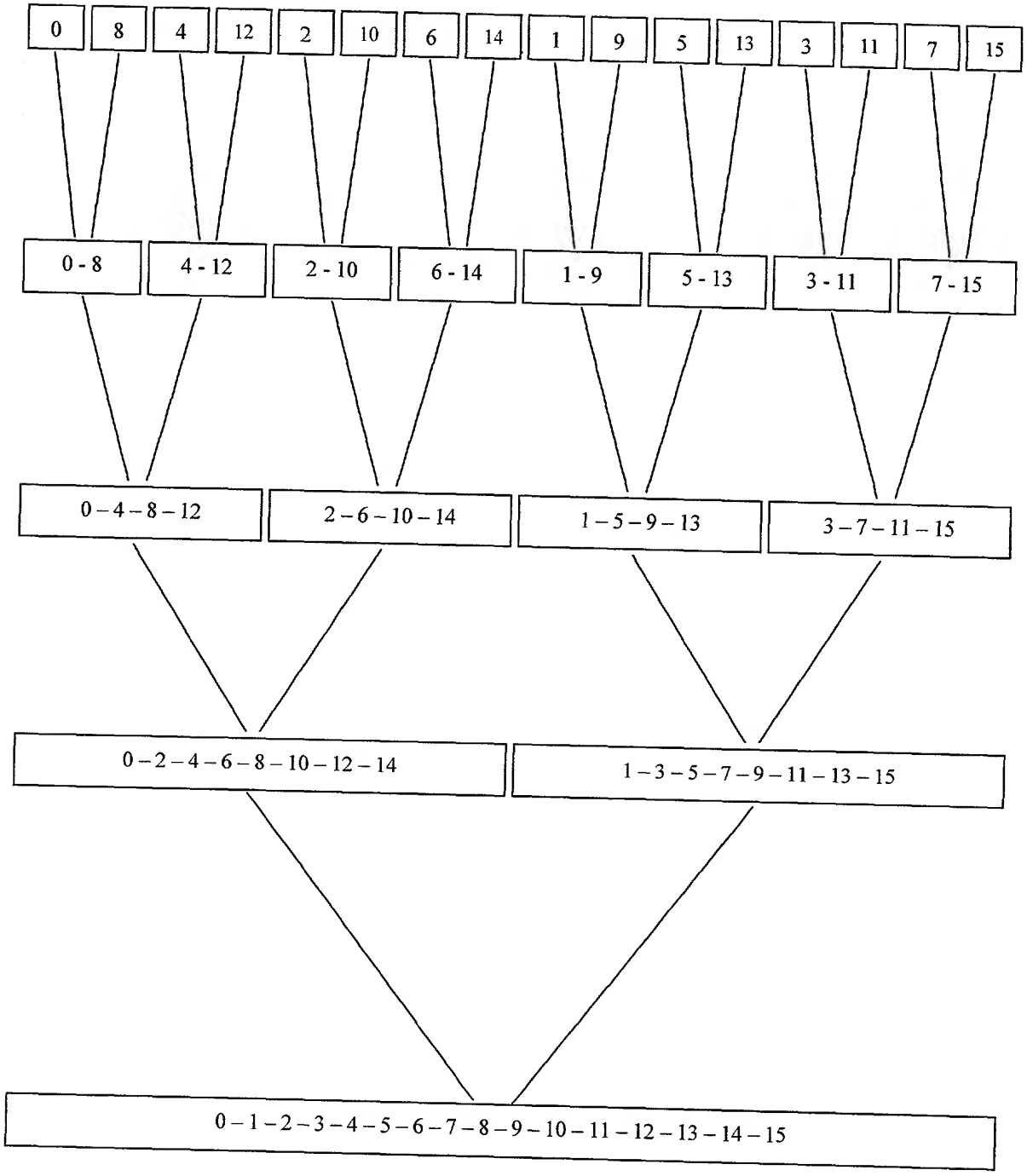

FIG. 6

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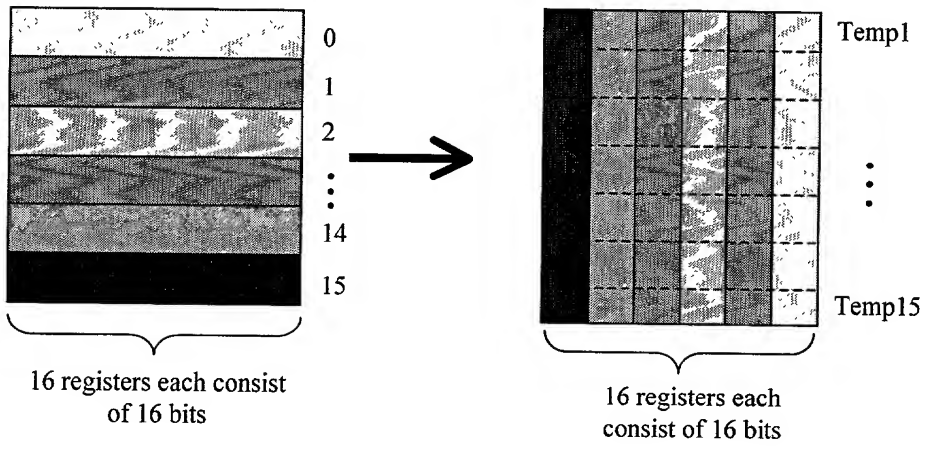

FIG. 8

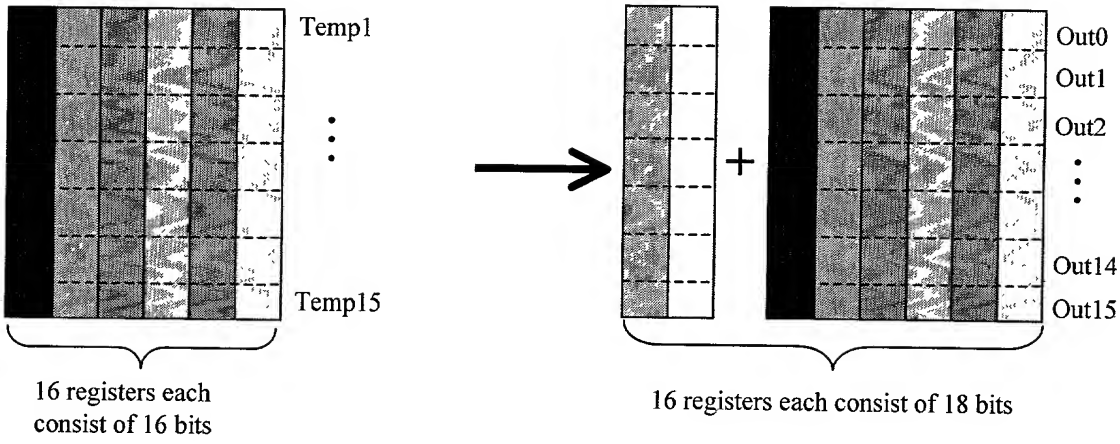

FIG. 9

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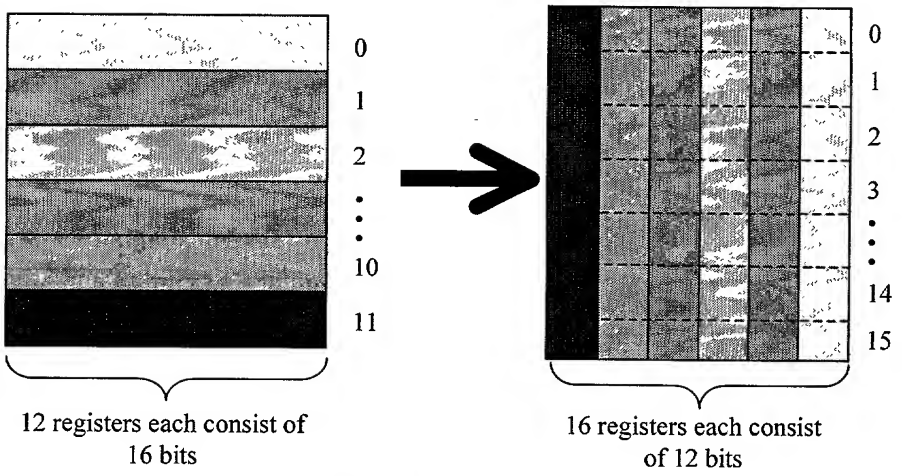

FIG. 10

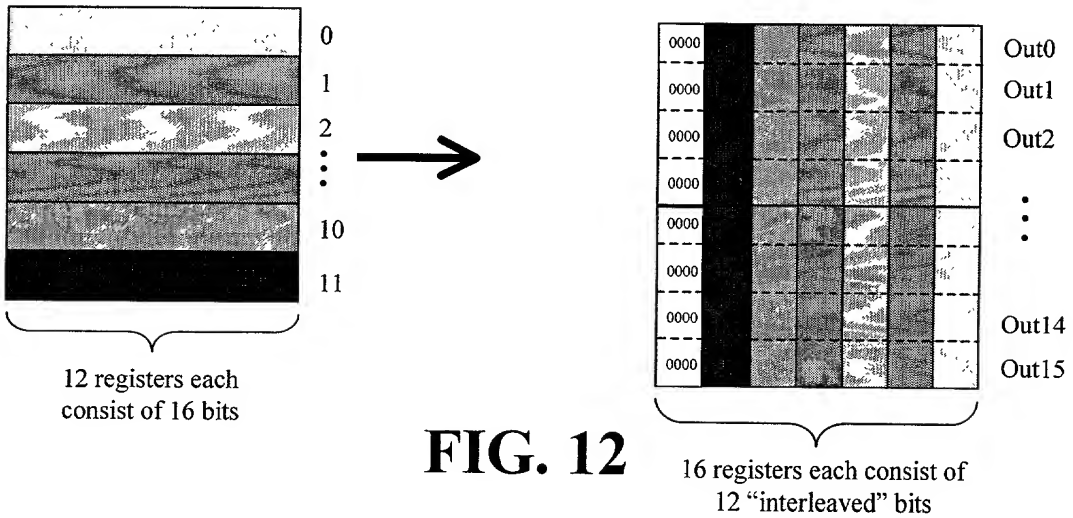

FIG. 12

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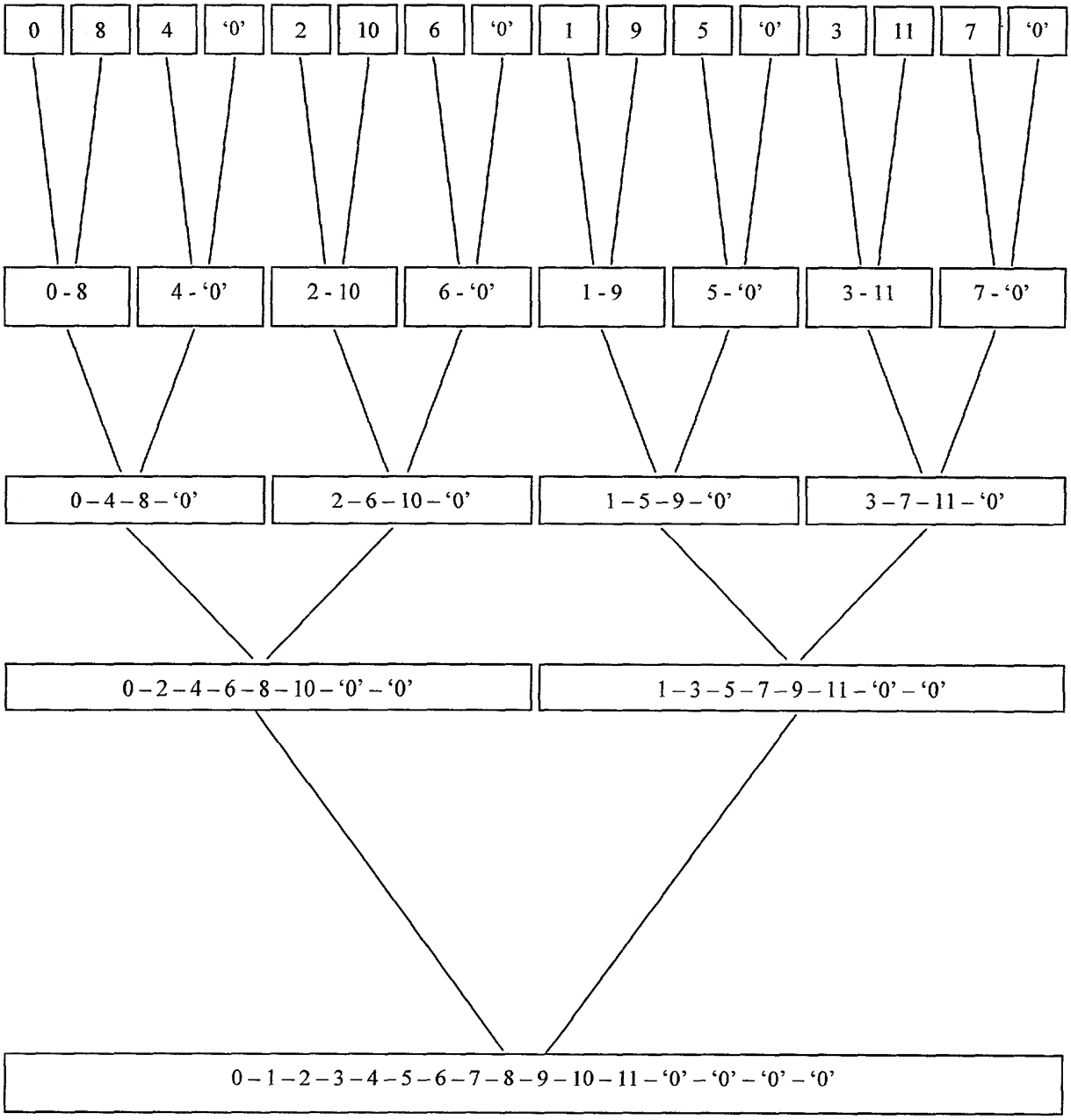

FIG. 11

Attorney Docket No. 2207/12613

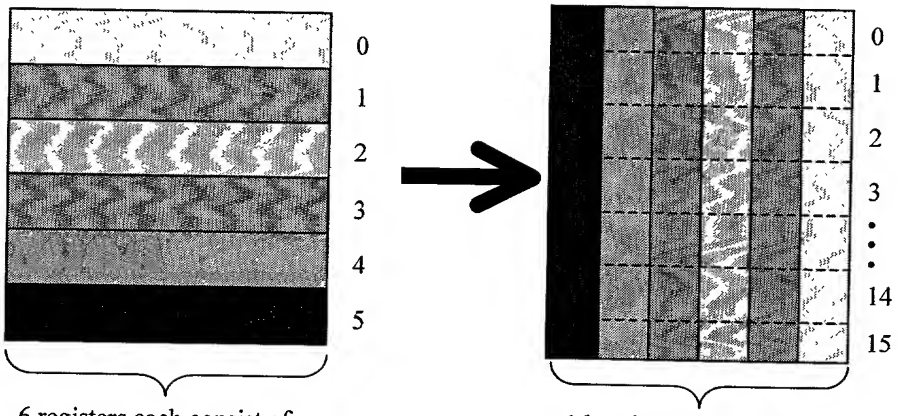

FIG. 13

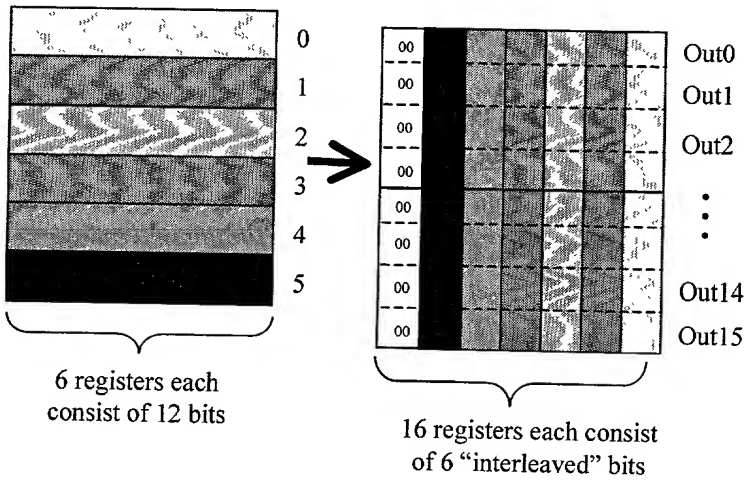

FIG. 15

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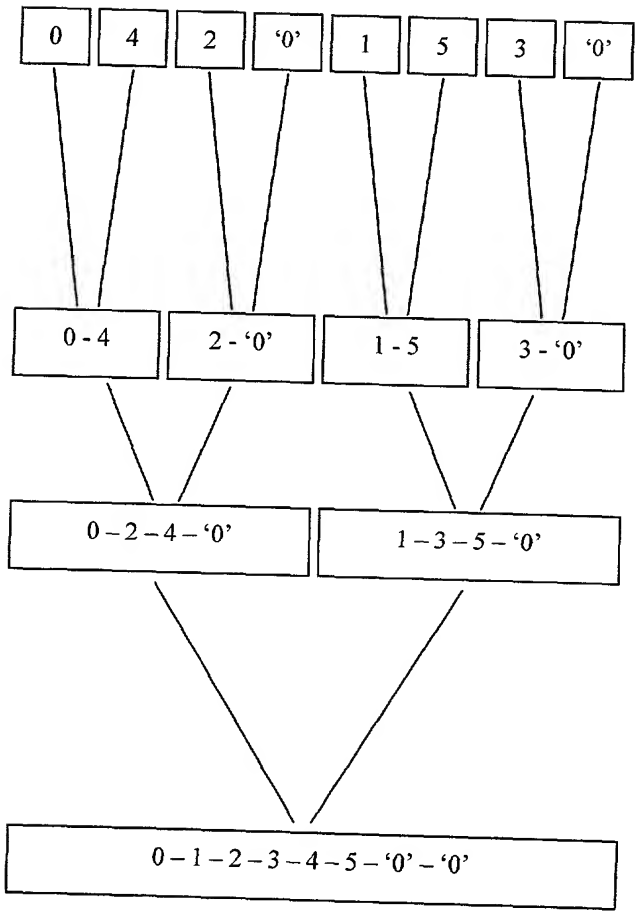

FIG. 14

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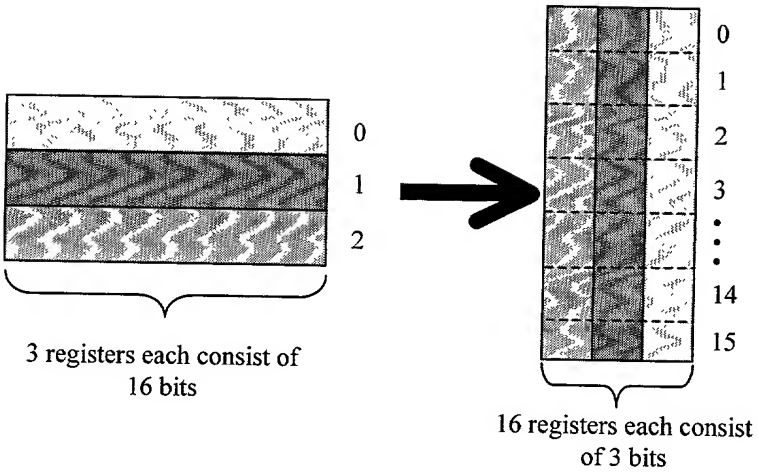

FIG. 16

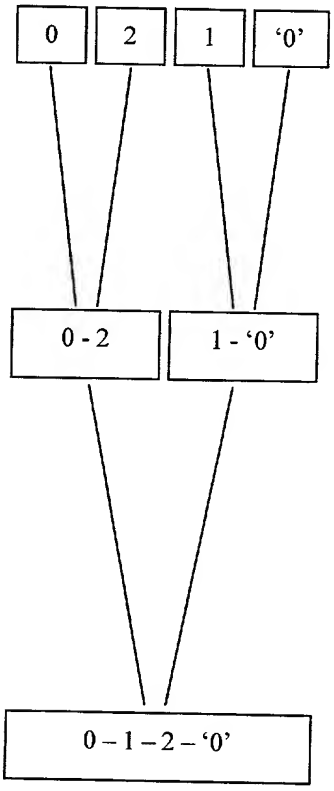

FIG. 17

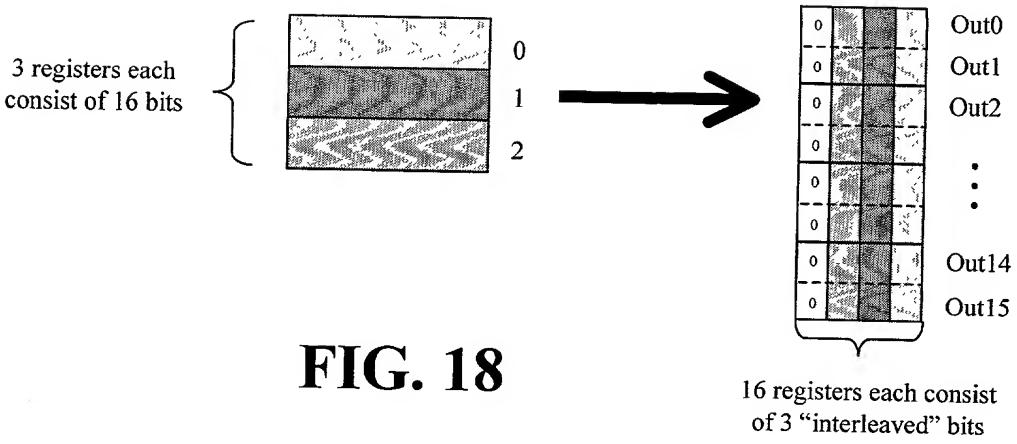

FIG. 18

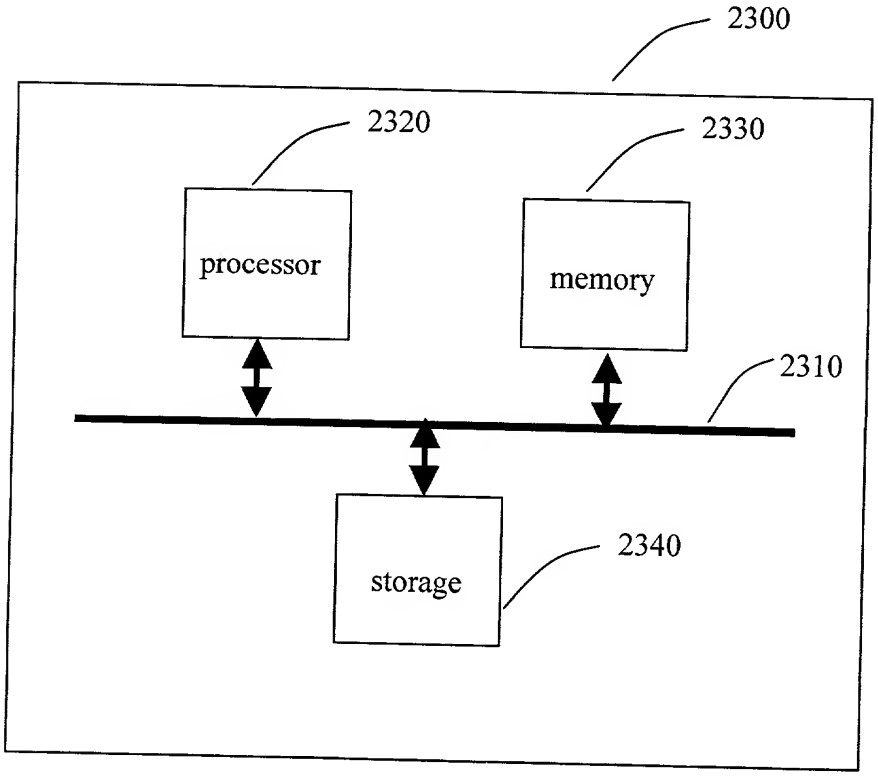

FIG. 19

Exhibit 1 Page 1004